Appendix G

Biographical Sketches of Principal Investigators and Members of the Advisory Panel

PRINCIPAL INVESTIGATORS

DR. MICHAEL KLEINMAN is Associate Director of the Air Pollution Effects Laboratory and Adjunct Professor at the Department in Community and Environmental Medicine at the School of Medicine, University of California, Irvine. Dr. Kleinman's research program examines the mechanisms by which inhaled toxic chemicals, alone and in mixtures, interfere with the cardiopulmonary system and with respiratory system defenses, using both laboratory animals and human subjects. Dr. Kleinman is chair of the State of California Environmental Protection Agency Air Quality Advisory Committee, a former member of the Toxicology Committee of the American Industrial Hygiene Association, and a member of the U.S. EPA's Science Advisory Board Health and Economic Effects Subcommittee. Dr. Kleinman is also a member of the Human Subjects Research Committee and the Biosafety Committee at the University of California-Irvine.

DR. MICHAEL WARTELL is Chancellor of the Indiana University-Purdue University Fort Wayne with a Ph.D. in Physical Chemistry from Yale University. He was involved in the Army Science Board in the 1980's where issues of chemical and biological defenses were part of Ad Hoc and Summer Study Groups in which he participated. In 1997, he rejoined the Army Science Board and is an ex-officio member of the Defense Science Board. He also serves as chair of the Defense Intelligence Agency Science and Technology Advisory Board. His positions on these boards are unpaid and afford a broad view of current activities with regard to protection against chemical and biological warfare. Dr. Wartell is interested in

defense issues related to chemical and biological warfare and DoD policies and doctrine.

ADVISORY PANEL

WYETT H. COLCLASURE II is a retired Colonel with the U.S. Army who received his M.S. in Chemistry from the University of Illinois. He is currently the Chairman of the Environmental Technologies Group, Inc. Col. (ret.) Colclasure held many important positions within the Army including Project Manager for NBC Defense Systems of the Chemical and Biological Defense Command, Aberdeen Proving Ground; Director of Materiel Test, Dugway Proving Ground, and; Chief of the Chemical Operations Division, HQ Army Materiel Command. He has conducted the analyses of environmental studies, led a field and lab testing organization, prepared Department of Defense reports for Congress and directed the writing of concepts used to guide development of new chemical defense doctrine and equipment.

STEPHEN R. HILL received his Ph.D. in Public Policy and International Relations from the University of Maryland. Dr. Hill is the President of Global Analytics, Inc. which was awarded a multi-year sole source contract in support of the Data Fusion Facility for systems integration. His prior work experience includes TASC, Inc. were he was the principle investigator in the USAF preparedness for nuclear, biological and chemical warfare attacks, counter-proliferation, application of non-linear sciences to geopolitical issues, and strategic stability for the Strategic Defense Initiative Organization/Ballistic Missile Defense Organization. He has co-authored a Report to Congress describing the deployment plan for the ballistic missile defense and authored a book entitled *Fostering High Technology Industries: Firm Behavior, Industry Structure and National Policy*.

SIDNEY A. KATZ graduated with a Ph.D. in analytical chemistry from the University of Pennsylvania. Dr. Katz is currently a Professor in the Department of Chemistry, Rutgers University. His areas of research include the role and fate of trace elements in environmental and biological systems and the identification of toxic substances in the domestic and occupational environments. Awards that he has received include a NATO Senior Fellowship in Science, Army Research Associateships, USIS Lectureships and a Fulbright Lectureship. Dr. Katz has published extensively including a dozen technical reports prepared for agencies such as the U.S. Army Chemical and Biological Defense Agency, the New Jersey State Department of Environmental Protection and the International Agency Energy Agency.

FRANK KO received a Ph.D. in Polymer Science and Textile Engineering from the Georgia Institute of Technology and is currently a professor of Materials Engineering at Drexel University. In addition, he is the Director of the Fibrous Materials Research Center and on the Core Faculty of the Biomedical Institute. His research interests include the technology and modeling of textile structural composites, fiber viscoelasticity, the engineering design of medical and industrial textiles, the engineering design and processing of 3-D scaffolds for tissue engineering, and the engineering properties of high performance fibers. Dr. Ko serves on the editorial boards of the *Journal of Composites Technology and Research, Journal of Nonwoven Research, Composites,* and *Applied Sciences and Manufacturing*. He has also served as a committee member for the Assessment of the U.S. Army Natick Research, Development and Engineering Center and a proposal reviewer for the Army Research Office and the National Science Foundation.

HOWARD MAIBACH received his M.D. from Tulane University and an honorary Ph.D. from the University of Paris. Dr. Maibach currently serves as a professor in the Department of Dermatology at the University of California School of Medicine. His areas of research include dermatotoxicology, dermatopharmacology and environmental dermatoses. He has previously served on the Committee on Toxicology, Committee on Protection against Mycotoxins, Panel on Irritant Chemicals, and the Coordinating Committee to the Subcommittee on Possible Long-term Effects of Short Term Exposures to Chemical Agents. Dr. Maibach has authored or co-authored over 1,400 publications and 50 books in his area of expertise.

NAJMEDIM MESHKATI graduated with a Ph.D. in industrial and systems engineering from the University of Southern California (USC). Dr. Meshkati is an associate professor of civil/environmental engineering and associate professor of industrial and systems engineering at USC. He is the former associate director of the Institute of Safety and Systems Management (ISSM) where he was responsible for Professional Programs which included the 46-year old USC aviation safety, transportation safety management and occupational safety and health continuing education programs. Dr. Meshkati is an elected fellow of the Human Factors and Ergonomics Society and was a recipient of the Presidential Young Investigator Award for the National Science Foundation. His technical reports and articles on safety, health and environment; risk management, ergonomics and safety of petrochemical plants and nuclear power stations; and aviation safety have been published, disseminated and cited by many United Nations specialized agencies.